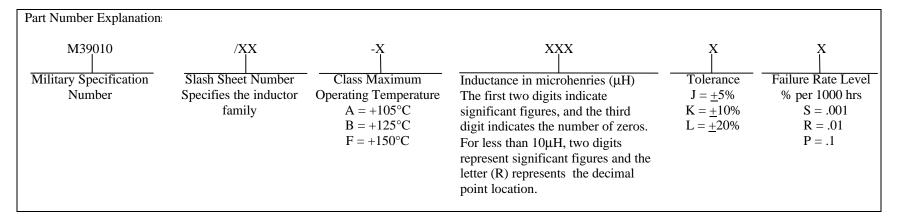
Summary of Preferred Coils/Inductors

		Inductance Range		Q	FRL		Refer to	
Specification	Description	Min	Max	(min) Range	Grade 1	Grade 2	Page No.	
MIL-C-39010	Fixed, molded, radio frequency	0.1 μΗ	100.0 mH	75 - 18	S (Note 1)	R, P	05-2	
MIL-C-83446	Chip, radio frequency, fixed or variable	0.01 μΗ	1,000 μΗ	75 - 19	Note 2		05-3	

Notes:

- 1. There are currently no failure rate level S parts available. Failure rate level R or P parts may be used in Grade 1 applications if they meet the Class S requirements of MIL-STD-981.
- 2. Failure rate level is not applicable. These inductors may be used in Grade 2 applications. They may be used in Grade 1 applications if they meet the Class S requirements of MIL-STD-981 (Groups A and B testing).

MIL-C-39010 Coils Fixed, Radio Frequency, Molded, Established Reliability

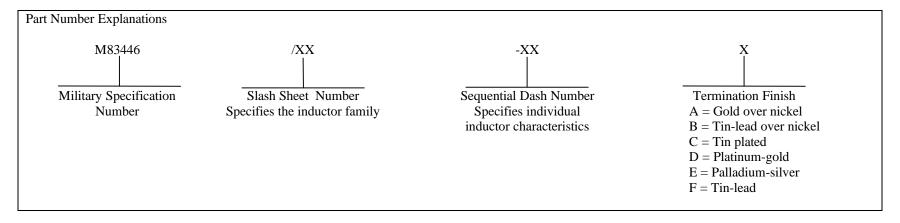


Part Number	Inductance Range (μΗ)	Inductance Tolerance	Q Min Range	Self Resonant Frequency (MHz)	Rated dc Current	Core Type	Construction	Operating Temperature (°C)		FRL	
(Note 1)		(<u>+</u> %)		Min	(mA)			Min	Max	Grade 1	Grade 2
M39010/01-AXXXXX	0.10 - 0.82	5, 10	40 - 50	180 – 250	370 - 1790	Phenolic core & iron sleeve	Shielded	-55	+105	S	P
M39010/02-AXXXXX	1.00 - 12.0		44 - 55	44 – 140	200 - 1070	Iron				Note 2	
M39010/03-AXXXXX	15 - 100,000		18 - 60	0.11 - 49	11 - 315	Ferrite					
M39010/06-BXXXXX	0.15 - 4.7	5, 10, 20	33 - 50	90 – 525	260 - 2450	Phenolic	Unshielded	-55	+125		
M39010/07-AXXXXX	5.6 - 33	5, 10	45 - 75	19 –60	165 - 495	Iron	Unshielded	-55	+105		

Notes:

- 1. Parts covered by this specification may contain internal soldered connections that may reflow during installation. Special care must be exercised when soldering to prevent internal solder reflow.
- 2. There are currently no failure rate level S parts available. Level P parts may be used in Grade 1 applications if they meet the Class S requirements (Groups A and B) of MIL-STD-981, for radio frequency fixed coils (Family 13).

MIL-C-83446, Coils Chip, Fixed or Variable, Radio Frequency



Part Number	Inductance Range (μH)	Inductance Tolerance (<u>+</u> %)	Q Min Range	Self Resonant Frequency (MHz) Min	Rated dc Current (mA)	Configuration	Construction	Temp	Operating Temperature (°C) Min Max		Grade 1 2	
M83446/04-XXX	0.010 - 27.0	10, 20	22 - 60	22.0 - 2700	120 - 1270	Fixed						
M83446/05-XXX	0.01 - 10.0	10	42 - 60	33.0 - 2000	87 - 750	Fixed						
M83446/07-XXX	0.016 - 76.1		19 - 55	5.0 - 1200	22 - 750	Variable	Unshielded	-55	+125		(Note 1)	
M83446/09-XXX	0.015 - 150		22 - 55	3.0 - 1200	22 - 750	Variable						
M83446/10-XXX	0.01 - 1000.0	10	30 - 75	1.7 - 2000	25 - 1000	Fixed						

Notes:

1. These inductors may be used in Grade 1 applications only if they meet the Class S requirements of MIL-STD-981. They may be used "as is" for Grade 2 applications.

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